SIEMENS

SIMOTION

SIMOTION documentation overview

Catalog

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Valid as of Version 4.4

01/2015

Legal information

Warning notice system

This manual contains notices you have to observe in order to ensure your personal safety, as well as to prevent damage to property. The notices referring to your personal safety are highlighted in the manual by a safety alert symbol, notices referring only to property damage have no safety alert symbol. These notices shown below are graded according to the degree of danger.

⚠ DANGER
indicates that death or severe personal injury **will** result if proper precautions are not taken.

⚠ WARNING
indicates that death or severe personal injury **may** result if proper precautions are not taken.

⚠ CAUTION
indicates that minor personal injury can result if proper precautions are not taken.

NOTICE
indicates that property damage can result if proper precautions are not taken.

If more than one degree of danger is present, the warning notice representing the highest degree of danger will be used. A notice warning of injury to persons with a safety alert symbol may also include a warning relating to property damage.

Qualified Personnel

The product/system described in this documentation may be operated only by **personnel qualified** for the specific task in accordance with the relevant documentation, in particular its warning notices and safety instructions. Qualified personnel are those who, based on their training and experience, are capable of identifying risks and avoiding potential hazards when working with these products/systems.

Proper use of Siemens products

Note the following:

⚠ WARNING
Siemens products may only be used for the applications described in the catalog and in the relevant technical documentation. If products and components from other manufacturers are used, these must be recommended or approved by Siemens. Proper transport, storage, installation, assembly, commissioning, operation and maintenance are required to ensure that the products operate safely and without any problems. The permissible ambient conditions must be complied with. The information in the relevant documentation must be observed.

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Disclaimer of Liability

We have reviewed the contents of this publication to ensure consistency with the hardware and software described. Since variance cannot be precluded entirely, we cannot guarantee full consistency. However, the information in this publication is reviewed regularly and any necessary corrections are included in subsequent editions.

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℗ 03/2015 Subject to change

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Preface

Validity

This SIMOTION documentation overview is valid for SIMOTION SCOUT product level V4.4.

SIMOTION overview

Here you can find an introduction to SIMOTION and the possibility to navigate to the required detailed information:

www.siemens.com/simotion (www.siemens.com/simotion)

SIMOTION documentation

An overview of the SIMOTION documentation can be found in this separate list.

This documentation is supplied in electronic format with SIMOTION SCOUT.

The SIMOTION documentation consists of ten documentation packages containing SIMOTION documents and documents on related systems, e.g. SINAMICS.

The documentation packages are organized according to functionality and contents.

The following documentation packages are available for SIMOTION 4.4:

- SIMOTION Engineering System Handling
- SIMOTION System and Function Descriptions
- SIMOTION Service and Diagnostics
- SIMOTION IT
- SIMOTION Programming
- SIMOTION Programming - References
- SIMOTION C
- SIMOTION P
- SIMOTION D
- SIMOTION Supplementary Documentation

You will find further documents at:

- SIMOTION application (Page 19)
  This contains an overview of the SIMOTION applications
- Ordering information (Page 23)
  Information about catalogs for SIMOTION and other components
- Additional information for SIMOTION (Page 25)

Hotline and Internet addresses

Additional information

Click the following link to find information on the following topics:

- Ordering documentation / overview of documentation
- Additional links to download documents
- Using documentation online (find and search manuals/information)

http://www.siemens.com/motioncontrol/docu

My Documentation Manager

Click the following link for information on how to compile documentation individually on the basis of Siemens content and how to adapt it for the purpose of your own machine documentation:

http://www.siemens.com/mdm

Training

Click the following link for information on SITRAIN - Siemens training courses for automation products, systems and solutions:

http://www.siemens.com/sitrain

FAQs

Frequently Asked Questions can be found in SIMOTION Utilities & Applications, which are included in the scope of delivery of SIMOTION SCOUT, and in the Service&Support pages in **Product Support**:

http://support.automation.siemens.com

Technical support

Country-specific telephone numbers for technical support are provided on the Internet under **Contact**:

http://www.siemens.com/automation/service&support

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SIMOTION Documentation 1

Overview of the SIMOTION documentation

The complete SIMOTION documentation is divided into various documentation packages and is contained on the SCOUT Documentation, Utilities & Applications DVD.

An initial overview is available as a short system overview for SIMOTION in the Basic Functions function manual (see the SIMOTION Description of System and Function Descriptions (Page 8) documentation package).

Terms and abbreviations from the SIMOTION environment are described in the **SIMOTION Glossary** (see SIMOTION Engineering System Handling (Page 7) documentation package).

The search across all PDF documents of a selected language is possible using the **Start.pdf** or via the **SIMOTION_Index.pdx** contained in the documentation directory of the respective language.

Extensive information especially for the programming and commissioning of a **SIMOTION D** is contained in the commissioning manuals on the (SIMOTION D (Page 15) documentation package).

Example for beginners

Getting Started in the online help is recommended as an introduction to the configuration with SIMOTION.

A more detailed overview with appropriate instructions can be found in an example for beginners in the Utilities & Applications.
The **SIMOTION Utilities & Applications** are contained on the **SCOUT Documentation, Utilities & Applications** DVD.

You start the navigation by opening the **Start_Utilities&Applications.html** in the **Utilities_Applications** directory.

The example with a comprehensive documentation can be found at **Examples > Example for beginners**.

1.1 SIMOTION Engineering System Handling

The documentation package contains documents that describe the handling of the SIMOTION Engineering System and the SIMOTION Cam Tool option package.

There is also a glossary that contains the SIMOTION terms and abbreviations.

The documents of this documentation package are contained in the 1_Engineering_system_handling directory.

SIMOTION SCOUT, Configuration Manual **Edition 01/2015**
Describes SIMOTION SCOUT, the SIMOTION engineering system.

SIMOTION SCOUT TIA, Configuration Manual **Edition 01/2015**
Describes SIMOTION SCOUT TIA, the SIMOTION engineering system.

SIMOTION SCOUT TIA Device Proxy, Configuration Manual **Edition 01/2015**
Describes SIMOTION SCOUT TIA device proxy.

SIMOTION SCOUT **Edition 01/2015**
Getting Started with SIMOTION SCOUT
Example project SIMOTION D435-2, Getting Started

SIMOTION Terms and Abbreviations, Glossary **Edition 11/2010**
Special SIMOTION terminology, an alphabetically arranged overview.

SIMOTION CamTool, Configuration Manual **Edition 11/2010**
Describes the easy-to-use cam tool.

1.2 SIMOTION System and Function Descriptions

This documentation package contains descriptions for the basic functions of the SIMOTION system as well as the explanations for the technology objects (TO) and the communications topic.

The documents of this documentation package are contained in the 2_Description_of_system_and_functions directory.

Note

Additional information on system functions, system variables and configuration data is contained in the SIMOTION Programming - References (Page 11) documentation package.

SIMOTION Runtime Basic Functions, Function Manual **Edition 01/2015**
This documentation provides a short system overview for SIMOTION and describes the basic structure and the programming of the technology objects.
The runtime system and the memory concept of the SIMOTION controllers are also described.

Motion Control, TO Axis Electric/Hydraulic, External Encoder, Function Manual — **Edition 01/2015**

Describes the operating principles of the speed, positioning, and hydraulic axes technology objects and the external encoder.

Motion Control, Synchronous Operation and Cam Technology Objects, Function Manual — **Edition 01/2015**

Describes the operating principles of the gearing and camming technology objects.

Motion Control, Path Interpolation Technology Objects, Function Manual — **Edition 01/2015**

Describes the functionality of the technology objects for path interpolation.

Motion Control Output Cam and Measuring Input, Function Manual — **Edition 01/2015**

Describes the operating principles of the output cam, cam track, and measuring input technology objects.

Motion Control, Supplementary Technology Objects, Function Manual — **Edition 01/2015**

Describes the operating principles of the fixed gear, addition object, formula object, sensor, controller object and temperature controller technology objects.

Motion Control, Basic Functions for Modular Machines, Function Manual — **Edition 01/2015**

Describes the modular machines functionality in the SIMOTION and SINAMICS system.

SIMOTION Communication, System Manual — **Edition 01/2015**

Describes the communications capabilities for SIMOTION systems and also to devices outside the SIMOTION family, in particular, SIMATIC.

1.3 SIMOTION Service and Diagnostics

This documentation package contains all information about the service and diagnostic functions of the system.

The documents of this documentation package are contained in the 3_Service_and_Diagnosis directory.

Overview of Service and Diagnostics Options, Product Information — **Edition 01/2015**

Overview of the options for system diagnostics for SIMOTION devices and references to other manuals and online helps.

Technology Packages Alarms, Diagnostics Manual **Edition 01/2015**

Contains information on the alarms for the **Cam, Path, Cam_ext** and **TControl** technology packages.

The alarms are organized numerically under the technology packages (TP) according to technology object (TO).

Upgrading SIMOTION Devices, Operating Instructions **Edition 01/2015**

Describes a simple way of exchanging the configuration or firmware of one or more
SIMOTION devices using the Device Update tool.

Task Trace, Function Manual **Edition 04/2014**

Describes the structure and handling of the SIMOTION Task Trace.

SIMOTION Project Comparison, Function Manual **Edition 01/2015**

Describes the SCOUT Project Comparison function with which you can compare objects within a project or with objects from other projects (offline) or objects of the project with the connected target system (online).

1.4 SIMOTION IT

This documentation package contains all information about the Web functions for SIMOTION IT with which the machine manufacturer and user can perform commissionings as well as service and diagnostic tasks without engineering tools.

The documents of this documentation package are contained in the 3_SIMOTION_IT directory.

SIMOTION IT Diagnosis and Configuration, Diagnostics Manual **Edition 01/2015**

Describes the diagnosis of the SIMOTION devices via the integrated Web server.
Access is made with a standard browser (e.g. Firefox) via the IP address of the SIMOTION device. You can use the standard diagnostic pages or your own HTML pages for access.

SIMOTION IT Programming and Web Services, Programming Manual **Edition 01/2015**

Describes the access to the diagnostic functions with Web services.
This function package comprises a web service that permits the connection of applications to a controller via the Internet and, for example via OPC XML-DA, access to data and operating states in the SIMOTION device.
Commands are transmitted via the SOAP (Simple Object Access Protocol) communication protocol.
Additional description of the Trace via SOAP (TVS) function package that permits variables from the environment of the SIMOTION variable provider to be recorded.

SIMOTION IT Virtual Machine and Servlets, Programming Manual **Edition 01/2015**

The Jamaica Virtual Machine (JamaicaVM) provides a runtime system with which Java applications can be executed on the SIMOTION device. It is an implementation of the **Java Virtual Machine Specification**.
The Servlets section of the documentation describes the use of servlets in a web container of a SIMOTION device.

1.5 SIMOTION Programming

This documentation package contains documents with the descriptions for the various programming languages and editors.

The documents of this documentation package are contained in the 3_Programming directory.

SIMOTION ST Structured Text Programming and Operating Manual **Edition 01/2015**

Describes the text-based Structured Text SIMOTION programming language.

SIMOTION MCC Motion Control Chart, Programming and Operating Manual **Edition 01/2015**

Describes the graphics-based SIMOTION Motion Control Chart programming language.

SIMOTION LAD/FBD Programming and Operating Manual **Edition 01/2015**

Describes the graphics-based Ladder Diagram (LAD) and Function Block Diagram (FBD) SIMOTION programming languages.

SINAMICS/SIMOTION DCC Editor Description, Programming and Operating Manual **Edition 01/2015**

Describes the graphics-based Drive Control Chart Editor (DCC editor) based on CFC.
Graphics-based configuration of SIMOTION controllers and SINAMICS drives is possible.

1.6 SIMOTION Programming - References

SIMOTION Lists Manuals

The following documents are reference lists required for the programming of the **Cam**, **Path**, **Cam_ext** and **TControl** technology packages as well as the **SIMOTION devices**.

The documents of this documentation package are contained in the 3_Programming_reference_lists directory.

System Functions/Variables Devices, List Manual **Edition 01/2015**

Describes the system functions/variables for the **SIMOTION C**, **P** and **D** hardware platforms.

Technology Packages System Functions, List Manual **Edition 01/2015**

Describes the system functions for the **Cam_ext** and **TControl technology packages** (TP).
TP **Cam** and TP **Path** are part of TP **Cam_ext**.

The List Manual is organized based on the structure of the SIMOTION SCOUT command library.

The command library is located in the tab of the same name in the project navigator of SIMOTION SCOUT. The system functions are listed in the **PLCopen** and **Technology** folders there.

The list of reserved identifiers can be found in the SIMOTION Basic Functions manual (see SIMOTION System and Function Description (Page 8) document package).

Technology Packages Configuration Data, List Manual **Edition 01/2015**

Describes the configuration data for the **Cam**, **Path**, **Cam_ext** and **TControl** technology packages.

The configuration data is listed as follows:
Under the technology packages (TP), in alphabetical order according to technology object (TO).

Technology Packages System Variables, List Manual **Edition 01/2015**

Describes the system variables for the **Cam**, **Path**, **Cam_ext** and **TControl** technology packages.

The system variables are listed as follows:

Under the technology packages (TP), in alphabetical order according to technology object (TO).

Other function blocks

The following documents contain descriptions of other **function blocks** from the **SIMOTION SCOUT command library**.

PLCopen Blocks, Function Manual **Edition 01/2015**

Describes the PLCopen blocks for motion control programming from a cyclic PLC viewpoint.

SINAMICS/SIMOTION Description of the standard DCC blocks, Function Manual — Edition 04/2014

Description of the standard DCC blocks for SIMOTION and SINAMICS.

Drive connection

Standard Function for SINAMICS S120 Line Modules, Function Manual — Edition 01/2015

Describes the function blocks for the activation and deactivation of the SINAMICS S120 Line Modules with DRIVE-CLiQ connection.

Supplement to the SIMODRIVE POSMO A Positioning Motor, Function Manual — Edition 01/2015

Describes the function blocks for the communication between the SIMOTION system and the distributed SIMODRIVE POSMO A positioning motor.

Reading and Writing Drive Data, Function Manual — Edition 01/2015

Describes the function block for reading and writing drive data for SIMOTION.

SIMODRIVE

The documents for this topic are available at:

Additional information for SIMOTION (Page 25)

I/O

Supplement to the CP 340 and CP341 Modules, Function Manual — Edition 01/2015

Describes the function blocks for the data exchange between a SIMOTION device and communication processors.

Supplement to the FM 350-1, FM 350-2 and FM 352 Modules, Function Manual — Edition 01/2015

Describes the function blocks for the communication between the SIMOTION system and the FM 350-1, FM 350-2 and FM 352 modules.

Supplement to the ET 200S 1SI Serial Interface Module, Function Manual — Edition 01/2015

Describes the function blocks for the communication between the SIMOTION system and the ET 200S 1SI serial interface.

Supplement to the ET 200S Frequency Converter, Function Manual — Edition 01/2015

Describes the function block for controlling the ET 200S frequency converter.

Supplement to the Command Interface for AS-Interface Master Modules, Function Manual **Edition 01/2015**

Describes the function block for operation of the command interface of the AS-Interface master modules.

Standard Function for ASIsafe Safety Monitors, Function Manual **Edition 01/2015**

Describes the function blocks for reading out the diagnostic information of the ASIsafe safety monitor.

Standard Functions for RFID Systems, Function Manual **Edition 01/2015**

Describes the function blocks for the data exchange between the SIMOTION system and RFID systems according to the standard profile.

Supplement to the SIWAREX FTA Weighing Module, Function Manual **Edition 01/2015**

Describes the function block for controlling and assigning parameters for the SIWAREX FTA Weighing Module.

Controller

Basic Control, Function Manual **Edition 01/2015**

Describes the function blocks of the Basic Control software.

1.7 SIMOTION C

The documentation package contains the description for the **SIMOTION C** hardware platform.

The document of this documentation package is contained in the 5_SIMOTION_C directory.

The system functions and variables for the SIMOTION C hardware platform are described in the System Functions/Variables Devices, List Manual.
(See SIMOTION Programming - References (Page 11) documentation package).

SIMOTION C, Operating Instructions **Edition 01/2015**

Describes the controller versions of the SIMOTION product family.

1.8 SIMOTION P

The following documents contain the descriptions for the **SIMOTION P** hardware platform.

The documents of this documentation package are contained in the 5_SIMOTION_P directory.

The system functions and variables for the SIMOTION P hardware platform are described in the System Functions/Variables Devices, List Manual.
(See SIMOTION Programming - References (Page 11) documentation package).

SIMOTION P320-4 E / P320-4 S, Manual **Edition 01/2015**

Describes the PC-based hardware of the SIMOTION product family.

SIMOTION P320-4 E / P320-4 S, Commissioning and Hardware Installation Manual **Edition 01/2015**

Describes the PC-based hardware of the SIMOTION product family.

1.9 SIMOTION D

1.9.1 Documentation for the SIMOTION D hardware platform

The following documents contain the descriptions for the **SIMOTION D** hardware platform.

The documents of this documentation package are contained in the 5_SIMOTION_D directory.

The system functions and variables for the SIMOTION D hardware platform are described in the System Functions/Variables Devices, List Manual.
(See SIMOTION Programming - References (Page 11) documentation package).

SIMOTION D4x5-2, Manual **Edition 01/2015**

Describes the drive-based hardware of the SIMOTION product family.

SIMOTION D4x5-2, Commissioning and Hardware Installation Manual **Edition 01/2015**

Describes the drive-based hardware of the SIMOTION product family.

SIMOTION D410-2, Manual **Edition 01/2015**

Describes the hardware for the SIMOTION modular drive system for single axes.

SIMOTION D410-2, Commissioning and Hardware Installation Manual **Edition 01/2015**

Describes the hardware for the SIMOTION modular drive system for single axes.

1.9.2 Documentation for SINAMICS Integrated

The documents for SINAMICS Integrated are contained in the 5_SIMOTION_D directory.

With **SIMOTION D**, the **SIMOTION** PLC and motion control functionality as well as the **SINAMICS S120** drive software run on a shared control hardware.

The integrated **SINAMICS Integrated** drive as well as further drive components are described in the documentation for **SINAMICS S120**.

For **SIMOTION D4xx-2**, the SINAMICS Integrated is based on **SINAMICS firmware Version V4.x**

The documents for SINAMICS can also be supplied individually with the appropriate article number as hard copy.

References

Further manuals can be found under Product Support > SINAMICS S High-Performance Converter (http://support.automation.siemens.com/WW/view/en/13305690/133300).

1.10 SIMOTION Supplementary Documentation

This documentation package contains product information as well as the hardware descriptions for components that are operated together with SIMOTION (e.g. ADI4).

The documents of this documentation package are contained in the 4_Additional_documentation directory.

Technology Modules TM Timer DIDQ for SIMOTION SCOUT and SIMOTION SCOUT TIA, Commissioning Manual — **Edition 01/2015**

This document describes the functionality and use of the Technology Modules TM Time DIDQ with SIMOTION SCOUT and SIMOTION SCOUT TIA.

TM15/TM17 High Feature SIMOTION Terminal Modules, Commissioning Manual — **Edition 01/2015**

This document describes the functionality and use of the TM15 and TM17 High Feature Terminal Modules.

TM15/TM17 High Feature SIMOTION Terminal Modules, Manual — **Edition 01/2015**

This document describes the functionality and use of the TM15 and TM17 High Feature Terminal Modules.

ADI4 - Analog Drive Interface for Four Axes, Manual — **Edition 04/2014**

This document describes the functionality and use of the ADI4 - Analog Drive Interface with which as many as four drives can be operated with the analog setpoint interface on the isochronous PROFIBUS DP.

SIMATIC Distributed I/Os IM 174 PROFIBUS Module, Manual **Edition 09/2011**

This document describes the standard functionality of the IM 174 module, an interface module with which as many as four drives can be operated with the analog setpoint interface with one TTL or SSI encoder per axis on the isochronous PROFIBUS DP.

SIMATIC NET (Win7/Win8.1) for SIMOTION, Product Information **Edition 12/2014**

This document describes the open OPC interface for access to various communication peers via SIMATIC NET.

SIMOTION Application

2

Numerous applications are available for SIMOTION that already provide a solid basic framework or predefined industry-specific configurations. With the help of the provided documentation, the applications can be easily used, adapted and extended for the associated application.

SIMOTION Utilities & Applications is part of the scope of delivery of SIMOTION SCOUT.

The following applications are supplied, for example:

SIMOTION Flying Saw
Flying saw

SIMOTION Rotary Knife
Cross cutter

SIMOTION Winder
Winder

SIMOTION Traverser
Traverser

SIMOTION Line Tension Control
Tension control

SIMOTION Top Loading
Solution for flexible handling applications

SIMOTION Easy Project project generator
SIMOTION Utilities & Applications also contains the SIMOTION Easy Project project generator.
SIMOTION Easy Project makes it easy and fast for basic functions required in practically every application to be included in a new or existing project.

Additional applications

All the complete SIMOTION applications can be found on the Internet at:
SIMOTION industry-sector solutions (http://www.Siemens.com/simotion/solutions)

The documents are supplied with the associated application or on request. Please contact your Siemens contact regarding this.

A selection of the applications is listed below:

SIMOTION Easy Basics

Collection of standardized SIMOTION basic functionality
(also see Product Support > Motion Control System SIMOTION > SIMOTION Easy Basics (http://support.automation.siemens.com/WW/view/en/43192804))

SIMOTION Modular Machine

Permits topology changes in a SINAMICS drive system during runtime.

SIMOTION Message Handling

The application for quick integration of the message handling in an existing SIMOTION project

SIMOTION Axis Function Block

Solution for controlling motion control basic function.

SIMOTION Startup Check

The application for the startup check of devices and I/O modules in the SIMOTION system

SIMOTION Cartoner

Solution for packaging machines

SIMOTION Intelligent Belt

Solution for the automatic operation of an intelligent belt (dual tension) as well as the provision of functions such as homing, positioning and jogging

SIMOTION/SIMATIC Ethernet Communication TCP/IP LCom

TCP/IP communication for SIMOTION and SIMATIC for data blocks up to 64 KB time synchronization

SIMOTION/SIMATIC OMAC V3

This software library provides a user-friendly basis for the configuration of an OMAC-compliant mode manager and a data interface for SIMOTION or SIMATIC

SIMOTION SimoPress

The application for automating mechanical universal presses with SIMOTION

SIMOTION SimoTrans
Solution for electronic transfer systems in the metal forming technology

SIMOTION SimoRoll
Solution for electronic roll feed in the metal forming technology

SIMOTION SimoFeed
Solution for press linking with feeder in the metal forming technology

SIMOTION IME5000 (all-electric injection molding)
Solution for electric injection molding machines

SIMOTION Print Standard
Application example for various printing machine types

SIMOTION Traverser Application
Traverser

SIMOTION Weaving Application
Solution for weaving machines

SIMOTION Ring Spinning Application
Solution for ring spinning machines

SIMOTION Rowing Frame Application
Solution for flyer control in the spinning process

SIMOTION Ordering Information

3

Catalogs for SIMOTION and other components

SIMOTION, SINAMICS S120 and SIMOTICS, Catalog PM 21 — **Edition 2013**
Equipment for production machines
Ordering information
Article number: E86060-K4921-A101-A3

SINUMERIK & SINAMICS, Catalog NC 61, — **Edition 2010**
Equipment for machine tools
Ordering information
Article number: E86060-K4461-A101-A3

SINUMERIK & SINAMICS, Catalog News NC 61 N, — **Edition 08/2012**
Equipment for Machine Tools
Ordering information
Article number: E86060-K4461-E101-A1 (News)

SIMATIC Products for Totally Integrated Automation, Catalog ST 70, — **Edition 2013**
Ordering information
Article number: E86060-K4670-A101-B4

SIMATIC NET, Industrial Communication, Catalog IK PI, Complete Catalog — **Edition 2015**
Ordering information
Article number: E86060-K6710-A101-B8

SIMATIC NET, Industrial Communication, Short Catalog — **Edition 11/2013**
Article number: E86060-K6710-B111-B3

Interactive catalogs

Products for Automation and Drives — **Edition 10/2014**
Annual update in October, can be ordered at:
Product catalog CA 01 (http://www.automation.siemens.com/mcms/topics/en/ik/Pages/Default.aspx)
Article number: E86060-D4001-A500-D4

/Mall/ IA&DT Mall, Catalog and Online Ordering System
Industry Mall (http://www.siemens.com/industrymall)

Additional information for SIMOTION

4

The following documents contain advanced information about SIMOTION.

SIMATIC HMI, ProTool Configuration

Communication for Windows-based Systems,
SIMATIC Manual Collection, incl. SIMATIC HMI

Siemens Support Entry ID 4073541 (http://support.automation.siemens.com/WW/view/en/4073541)

Article number: 6ES7 998-8XC01-8YE0

SIMATIC NET CP 343-2 / CP 343-2 P AS-Interface Master, Manual **Edition 08/2008**

Siemens support: Entry ID 5581657 (http://support.automation.siemens.com/WW/view/en/5581657)

Document identification number: C79000-G8900-C149-04

SIMATIC NET DP/AS-Interface Link 20E, Manual **Edition 11/2002**

Siemens support: Entry ID 5281638 (http://support.automation.siemens.com/WW/view/en/5281638)

Document identification number: C79000-G8900-C138-04

SIMATIC NET DP/AS-Interface Link Advanced, Manual **Edition 03/2008**

Siemens support: Entry ID 22710305 (http://support.automation.siemens.com/WW/view/en/22710305)

Document identification number: C79000-G8900-C209-03

SIMATIC NET IE/AS-Interface Link PN IO, Manual **Edition 03/2008**

Siemens support: Entry ID 22712154 (http://support.automation.siemens.com/WW/view/en/22712154)

Document identification number: C79000-G8900-C216-03

SIMATIC ET 200M Distributed I/O Device, Operating Instructions **Edition 12/2008**

Siemens support: Entry ID 1142798 (http://support.automation.siemens.com/WW/view/en/1142798)

Document identification number: EWA-4NEB780600601-08

SIMATIC S7-300 CP 340 Point-to-Point Connection, Installation and Parameter Assignment, Manual **Edition 04/2011**

Siemens support: Entry ID 1137332 (http://support.automation.siemens.com/WW/view/en/1137332)

Document identification number: A5E00369891-03

SIMATIC S7-300 CP 341 Point-to-Point Connection, Installation and Parameter Assignment, Manual — **Edition 04/2011**

Siemens support: Entry ID 1117397 (http://support.automation.siemens.com/WW/view/en/1117397)

Document identification number: A5E02191070-03

SIMATIC S7-300 FM 350-1 Counter Module, Manual — **Edition 05/2011**

Siemens support: Entry ID 1086726 (http://support.automation.siemens.com/WW/view/en/1086726)

Document identification number: A5E03539812-01

SIMATIC S7-300 FM 350-2 Counter Module, Manual — **Edition 05/2011**

Siemens support: Entry ID 1105178 (http://support.automation.siemens.com/WW/view/en/1105178)

Document identification number: A5E00271803-03

SIMATIC S7-300 FM 352 Electronic Cam Controller Installation and Parameter Assignment, Operating Instructions — **Edition 05/2011**

Siemens support: Entry ID 2103044 (http://support.automation.siemens.com/WW/view/en/2103044)

Document identification number: A5E01071719-03

SIMATIC Distributed I/O ET 200S Interface Module IM151-1 HIGH FEATURE (6ES7151-1BA02-0AB0), Manual — **Edition 03/2008**

Document identification number: A5E01075974-02

SIMATIC ET 200S Distributed I/Os IM151-3 PN HIGHFEATURE Interface Module (6ES7151-3BA23-0AB0), Manual — **Edition 08/2010**

Document identification number: A5E01584256-04

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